

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P296245

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-42-RDP-UNV-L93050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3208.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

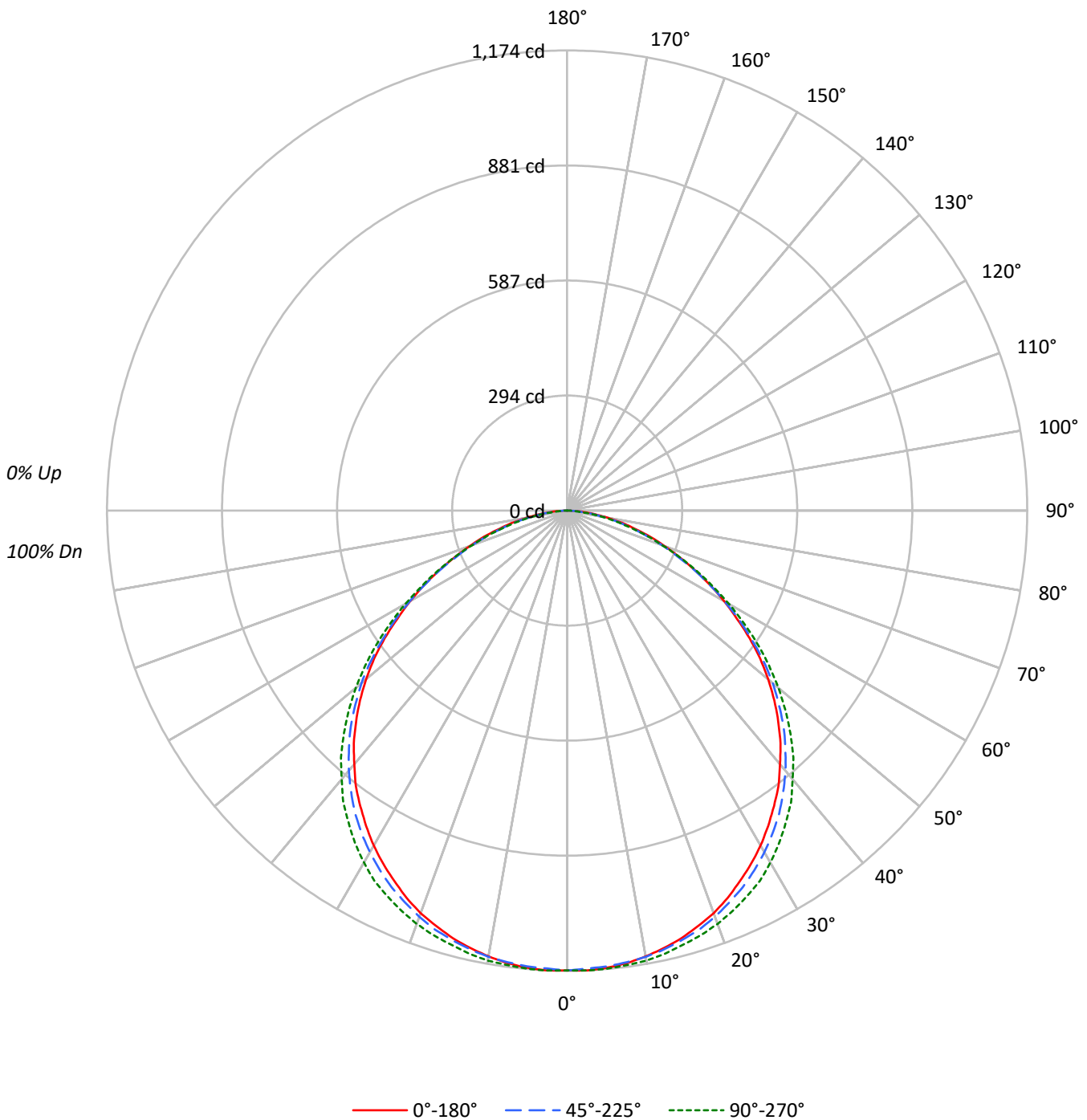
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1579	1579	1579
5°	1581	1576	1585
10°	1578	1580	1593
15°	1573	1580	1597
20°	1565	1579	1607
25°	1548	1574	1612
30°	1533	1564	1611
35°	1511	1549	1597
40°	1483	1522	1571
45°	1450	1487	1533
50°	1401	1434	1472
55°	1333	1350	1390
60°	1245	1251	1284
65°	1143	1135	1162
70°	1039	1010	1015
75°	924	873	867
80°	801	717	698
85°	658	508	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	3.5
10°-20°	320.8	10.0
20°-30°	489.6	15.3
30°-40°	590.3	18.4
40°-50°	601.9	18.8
50°-60°	515.1	16.1
60°-70°	354.8	11.1
70°-80°	181.9	5.7
80°-90°	42.3	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	921.6	28.7
0°-40°	1511.9	47.1
0°-60°	2628.9	81.9
0°-90°	3208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1171	1168	1167	1171	1173	111
15°	1129	1128	1134	1143	1146	319
25°	1043	1047	1060	1078	1086	481
35°	920	924	943	964	972	576
45°	762	763	781	801	806	587
55°	568	565	576	588	593	507
65°	359	350	357	359	365	357
75°	178	170	168	168	167	192
85°	43	38	33	29	26	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.2	1173.2	1173.2	1173.2	1173.2
2.5°	1174.4	1172.0	1169.5	1172.0	1174.4
5°	1170.7	1168.3	1167.1	1170.7	1173.2
7.5°	1164.7	1162.2	1162.2	1167.1	1169.5
10°	1154.9	1153.7	1156.1	1161.0	1165.9
12.5°	1142.8	1142.8	1146.4	1152.5	1157.4
15°	1129.4	1128.1	1134.2	1142.8	1146.4
17.5°	1111.1	1112.3	1120.8	1130.6	1135.5
20°	1092.9	1094.1	1102.6	1116.0	1122.1
22.5°	1069.7	1072.2	1081.9	1098.9	1105.0
25°	1043.0	1046.6	1060.0	1078.3	1085.6
27.5°	1016.2	1019.8	1034.4	1055.1	1064.9
30°	987.0	991.8	1006.5	1028.4	1036.9
32.5°	954.1	957.8	976.0	997.9	1006.5
35°	920.0	923.7	943.2	963.9	972.4
37.5°	886.0	886.0	905.4	929.8	938.3
40°	844.6	845.8	866.5	889.6	894.5
42.5°	805.6	805.6	823.9	845.8	854.3
45°	761.8	763.1	781.3	800.8	805.6
47.5°	716.8	716.8	732.6	750.9	755.8
50°	669.3	666.9	685.2	699.8	703.4
52.5°	620.7	617.0	631.6	643.8	648.7
55°	568.3	564.7	575.6	587.8	592.7
57.5°	513.6	508.7	520.9	531.8	534.3
60°	462.5	455.2	464.9	471.0	477.1
62.5°	411.3	402.8	410.1	413.8	418.6
65°	359.0	350.5	356.6	359.0	365.1
67.5°	309.1	303.0	304.2	307.9	310.3
70°	264.1	256.8	256.8	256.8	258.0
72.5°	222.7	211.8	210.5	211.8	211.8
75°	177.7	170.4	167.9	167.9	166.7
77.5°	142.4	132.7	131.4	129.0	126.6
80°	103.4	94.9	92.5	91.3	90.1
82.5°	71.8	64.5	62.1	59.6	56.0
85°	42.6	37.7	32.9	29.2	25.6
87.5°	15.8	14.6	12.2	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)